UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/540,609	06/27/2005	Akihide Mori	550718-112	9184	
²⁷⁸⁰⁵ THOMPSON I	7590 10/03/2007 HINE L.L.P.		EXAMINER		
İntellectual Pro	Intellectual Property Group			HALL, DEANNA K	
P.O. BOX 8801 DAYTON, OH 45401-8801			ART UNIT	PAPER NUMBER	
,		•	3767		
	•		MAIL DATE	DELIVERY MODE	
			10/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/540,609	MORI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Deanna K. Hall	3767			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re i. riod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	ATION. ply be timely filed "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status	•				
1)⊠ Responsive to communication(s) filed on 1	2 July 2007.				
	This action is non-final.				
3) Since this application is in condition for allo		ers, prosecution as to the merits is			
closed in accordance with the practice und	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1,2 and 5-10 is/are pending in the 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2 and 5-10 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Exan	niner.				
10)⊠ The drawing(s) filed on June 27, 2005 is/ard	e: a)⊠ accepted or b)⊡ obje	cted to by the Examiner.			
Applicant may not request that any objection to	the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the co	,	•			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu 	nents have been received. nents have been received in Appriority documents have been	oplication No			
* See the attached detailed Office action for a	list of the certified copies not r	received.			
Attachment(s)	,, m	(PTO 442)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application			

Application/Control Number: 10/540,609 Page 2

Art Unit: 3767

DETAILED ACTION

Acknowledgments

- 1. This office action is in response to the reply filed on July 12, 2007.
- 2. In the reply, the applicant amended claim 1 and cancelled claims 3 and 4.
- 3. Claims 1-2 and 5-10 remain pending in this application.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 8 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen (US 6,616,640). Chen discloses:

A cylindrical barrel 20 having a needle mounting portion 22 on one end and an piston-receiving opening 21 on the second end; a needle 30 adapted to be mounted to the needle mounting portion; and a piston 70 having a hollow inner portion C3 L40. Said needle may be received within said hollow inner portion C3 L66-67.

A reverse movement stopper ring 81 positioned within said cylindrical barrel for preventing said piston from being withdrawn from said cylindrical barrel after said piston has been advanced through said cylindrical barrel C6 L28-64.

Application/Control Number: 10/540,609 Page 3

Art Unit: 3767

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gray (US 6,830,564) in view of Caselli (US 5,201,710).

Gray discloses a syringe body 100 including a cylindrical barrel 101 having a needle mounting portion 101RDN on one end and an opening portion 101RO on the other end, and a needle 105 mounted on the needle mounting portion. Restricting means 107 for restricting the movement of the piston so that the cylindrical barrel is prefilled C14 L38-40 with a liquid medicine and then closed by the piston. C15 L18-30.

The piston movement restricting means comprises a bellows 107 and a fixing sheet with the bellows composed of an alternating circumferential portion 107P and trough portion 107W. The bellows cover at least a portion of the piston C18 L63-67 and the fixing sheet is glued onto the circumferential portion of the bellows C15 L25-30.

Gray discloses the invention as substantially claimed (see above). In addition Gray discloses a closing diaphragm 606 having crossing notches inside the opening storage portion and an end cap 611, See Figs. 12 and 13B. An object of Gray's invention is to prevent contamination C1 L5- C2 L51. Gray does not directly disclose retracting the needle into a hollow piston rod. Caselli, in the analogous art, teaches a

Art Unit: 3767

hollow piston rod 7 with an end cap 8 and an opening storage portion wherein the needle is stored Fig. 9. Therefore it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the device of Gray with the hollow piston and end cap as taught by Caselli for retracting the needle into the hollow piston for storage to prevent contamination Gray C1 L5- C2 L51.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gray and Caselli in view of Chen (US 6,616,640).

The combination of Gray and Caselli shows as discussed above. An object of Gray's invention is to prevent accidental separation of the plunger from the barrel Gray C2 L37-41. Chen, in the analogous art, teaches a reverse-movement prevention stopper ring 81 in the cylindrical barrel of the syringe body and a number of reverse-movement prevention projections 82 arranged on the piston rod wherein the projections are stopped by the stopper ring C4 L8-24. Therefore it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the device of Gray/Caselli with the plunger anti-detachment mechanism 80 as taught by Chen for preventing the accidental separation of the plunger from the barrel Gray C2 L37-41.

9. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gray and Caselli in view of Sampson (US 5,098,403).

Application/Control Number: 10/540,609 Page 5

Art Unit: 3767

The combination of Gray and Caselli shows as discussed above. The object of Gray's invention is to prevent contamination C1 L5- C2 L51. Sampson, in the analogous art, teaches a slide cover movable along the barrel of the syringe body Sampson Fig. 2. Therefore it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the device of Gray/Caselli with the slide cover Fig. 2 as taught by Sampson for preventing contamination by making the needle retractable Gray C1 L5- C2 L51.

10. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gray and Caselli in view of Crawford (US 4,573,977).

The combination of Gray and Caselli shows as discussed above. The object of Gray's invention is to inject pre-filled syringes of medication into patients Gray C2 L55-64. Crawford, in the analogous art, teaches a liquid-prefilled pouch 20 arranged in the cylindrical barrel Fig. 1 wherein a proximal sharp end of the needle 14 is projected in the cylindrical barrel Fig. 2. Therefore it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the device of Gray with the pouch as taught by Crawford for injecting pre-filled syringes of medication into patients Gray C2 L55-64.

11. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chen in view of Gray (US 6,830,564).

Application/Control Number: 10/540,609

Art Unit: 3767

Chen shows as discussed above. The object of Chen's invention is to prevent accidental injury or re-use of a syringe Chen C1 L9-14. Gray, in the analogous art, teaches a fixing sheet 107, C15 L25-30 removably attached to a piston for preventing unintentional advancement of the piston through the cylindrical barrel. Therefore it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the device of Chen with the fixing sheet as taught by Gray since adding the fixing sheet to the piston will provide a barrier of movement thus preventing any accidental injury or re-use of the syringe Chen C1 L9-14.

Response to Arguments

12. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

Application/Control Number: 10/540,609

Art Unit: 3767

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Page 7

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deanna K. Hall whose telephone number is 571-272-2819. The examiner can normally be reached on M-F 8:00am-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LoAn Thanh can be reached on 571-272-4966. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Deanna K. Hall Examiner

AU 3767

dkh